

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A method usable with a subterranean well, comprising:
obtaining pressure measurements along a wellbore during flowing of the well
without intervening in the well; and
using a model to determine from the pressure measurements a distribution of a
characteristic in the vicinity of the well.
2. (Currently amended) The method of claim 1, wherein using comprises
determining the distribution of ~~the characteristic~~ comprises a permeability profile.
3. (Original) The method of claim 1, wherein the using comprises:
providing an estimation of the distribution to the model; and
refining the estimation using the pressure measurements.
4. (Original) The method of claim 3, wherein the refining comprises
performing an inversion of a connection factor that interrelates the distribution to the pressure
measurements.
5. (Original) The method of claim 1, further comprising:
deploying a sensor into the well; and
obtaining the pressure measurements from the sensor.
6. (Original) The method of claim 5, wherein the deploying comprises
deploying an optical fiber into the well.

7. (Original) The method of claim 1, further comprising treating the well in response to the determined distribution of the characteristic.

8. (Currently amended) The method of claim 1, further comprising placing a subsequent well in response to the determination of a specific type of ~~the~~ distribution of the characteristic.

9. (Original) The method of claim 1, wherein the obtaining comprises using sensors that are permanently mounted in the well.

10. (Canceled)

11. (Canceled)

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